BOAI	RD OF COMMISSIONERS AGENDA ROUTE SHEET REFERRED TO COMMISSION COMMITTEE NU FOR BOARD ACTION ON	
OF COU	DESCRIPTION OF ITEM: AN ORDINANCE BY THE SOMMISSIONERS ADOPTING THE 2015 EDITION OF THE VOIL FIRE CODE WITH CERTAIN LOCAL AMENDMENT FFECTIVE DATE. SPONSORED BY COMMISSIONER.	HE INTERNATIONAL CODE
2. TH	IS ACTION WILL (X) WILL NOT () REQUIRE EXPEND OS.	TOTAL OF COUNTY
3.	APPROVAL:	
	DEPARTMENT HEAD:	DATE:
	JURISDICTIONAL ELECTED OFFICIAL:	_ DATE:
	DIVISION DIRECTOR:	DATE:
	FINANCE DEPT:	_ DATE:
	COUNTY ATTORNEY:	DATE:
	CHIEF ADMINISTRATIVE OFFICER:	_ DATE:
4.	REFERRED TO COMMISSION COMMITTEE	DATE:

5. RETURNED TO ADMINISTRATION/JURISDICTIONAL ELECTED OFFICIAL BY DIRECTOR OF COUNTY COMMISSION _____ DATE: ____

CHAIRMAN: _____ DATE: ____

- 6. COMMENTS:
- 7. REQUIRED ATTACHMENTS (WHEN APPLICABLE):
- 1.(X) SUMMARY SHEET 6.() RESOLUTION
- 2.() EOC DOCUMENTS 7.() BUDGET FORMS
- 3.() BID SHEETS 8.() PCB FORMS
- 4.() BIOGRAPHICAL SHEETS 9.() CONTRACT/PURCHASE
 - (APPOINTMENTS ONLY) AGREEMENT
- 5.() MAPS 10.() OTHER-GENERAL INFORMATION SHEET

I. Description of Item

An Ordinance by the Shelby County Board of Commissioners adopting the 2009 Edition of the *International Code Council (ICC) International Fire Code* with certain local amendments thereto, together replacing the 2003 edition of the ICC Fire Code now in use locally. A mandatory effective date of June 30, 2012 is also established.

II. Source and Amount of Funding

A. Amount Expended/Budget Line Item

NONE.

B. All Costs (Direct/Indirect)

NONE.

C. Additional or Subsequent Obligations or Expenses of Shelby County
NONE.

III. Contract Items - N/A

- A. Type of Contract N/A
- B. Terms N/A

IV. Additional Information Relevant to Approval of this Item

Administration recommends approval of this Amendment.

ORI	DINANCE NO	
Seconded by:	_	County Attorney
Moved:	_ APPROVED BY: _	County Attorney
ITEM #	PREPARED BY:	-

AN ORDINANCE ADOPTING THE 2015 EDITION OF THE *INTERNATIONAL CODE COUNCIL INTERNATIONAL FIRE CODE* INCLUDING CERTAIN APPENDICES IN THAT CODE, AND OTHER LOCAL AMENDMENTS, AND AMENDING CHAPTER 22, ARTICLE II OF THE SHELBY COUNTY CODE OF ORDINANCES. SPONSORED BY COMMISSIONER.

WHEREAS, the Shelby County Board of Commissioners seek to adopt and maintain a comprehensive set of coordinated Technical Codes and to update those Codes to assure the safe and effective fire protection measures in the construction of commercial and residential buildings and structures in the Community; and

WHEREAS, it has been determined that it is necessary and prudent to adopt newer code editions covering these important public safety requirements related to fire prevention and control which had previously been covered by regulations in the 2009 edition of *ICC International Fire Code*, which is outdated and;

WHEREAS, the certain provisions of the 2015 Edition of the *ICC International Fire Code*, when adopted by the Board, will provide a modern and internally consistent Code for such fire prevention efforts and is within the family of codes already adopted in Shelby County.

NOW, THEREFORE BE IT ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF SHELBY COUNTY, TENNESSEE:

- (a) That the 2015 Edition of the *ICC International Fire* Code is hereby adopted by reference, a copy of said code being on file in the Shelby County Clerk's Office;
- (b) BE IT FURTHER ORDAINED, That the following Appendices of the 2015 Edition of the *ICC International Fire Code*, or as locally drafted, are also adopted, but that any appendix not listed in this ordinance is specifically not adopted: **Appendix A**—Permit, Plans and Inspection Fees, **Appendix B**—Fire Flow Requirements for Buildings, **Appendix C**—Fire Hydrant Locations and Distribution, **Appendix D**—Fire Apparatus Access Roads, **Appendix E**—Hazard Categories, **Appendix F**—Hazard Ranking, and **Appendix G**—Cryogenic Fluids—Weight and Volume Equivalents, **Appendix H**—Hazardous Materials Management Plans and Hazardous Materials Inventory Statement Instructions, **Appendix I**—Fire Protection Systems—Noncompliant

Conditions, **Appendix J-** Building Information Signs, **Appendix K-** Construction Requirements for Existing Ambulatory Care Facilities, **Appendix L-** Requirements for Firefighting Air Replenishing Systems.

- (c) BE IT FURTHER ORDAINED, That the 2015 Edition of the *International Fire Code* is amended by adoption of the local amendments attached to this Ordinance as Exhibit A;
- (d) BE IT FURTHER ORDAINED, That Chapter 22, Article II of the Shelby County Code of Ordinances is amended to make such changes as necessary to implement the update of this code, in accordance with the changes shown in Exhibit B, which is attached hereto and incorporated herein by reference;
- (e) BE IT FURTHER ORDAINED, That the provisions of this ordinance are hereby severable. If any of these sections, provisions, sentences, clauses, phrases or parts are held unconstitutional or void by a court of competent jurisdiction the remainder of this ordinance shall continue in full force and effect.
- **(f) BE IT FURTHER ORDAINED,** That this Ordinance shall take effect in unincorporated areas of Shelby County on by virtue of the passage thereof by the Board of Commissioners of Shelby County and as provide by the Shelby County Charter, Article II, § 2.06 (C).

	County Mayor
	Date
	ATTEST:
	Clerk of County Commission
First Reading:	-
Second Reading:	

Adopted	
Third Reading:	

EXHIBIT A

Memphis

and

Shelby County

2018 Fire Prevention Code

County Fire Prevention Code Amendments to the 2015 Edition of the ICC International Fire Code

- 103. 2 Appointment is amended to delete the entire section without substitution
- **103.3 Deputies** is amended to delete the entire section without substitution
- 104.6 Official records is amended to delete the entire section and subsections 104.6.1 Approvals, 104.6.2 Inspections, 104.6.3 Fire Records, and 104.6.4 Administration without substitution.
- **105.4.6 Retention of construction documents** is amended to delete the first sentence "one set of construction documents shall be retained by the fire code official for a period of 180 from the date of completion of the permitted work, or as required by state or local laws," without substitution.
- 105.6.28 LP gas is amended to add the following sentence at the end of section 1 after the word "gas":

It shall be the responsible of the owner of the LP container to obtain the permit.

- **105.6.45 Temporary membrane structure and tents** is amended to delete the entire section and substitute in lieu thereof the following:
 - **105.6.45 Temporary membrane structures and tents**. No person shall erect, operate, or maintain a tent or air supported membrane structure covering an area in excess of 120 sq. feet (11.15m²) without a permit. **Exception**
 - 2. Funeral Tents and curtains or extensions attached thereto when used for funeral services.
 - **105.6.45.1** Responsibly It shall be the responsible of the owner of the tent to obtain the permit
- **105.7.18 Temporary membrane structures and tents** is amended to delete the third exception without replacement.
- **105.7.18 Temporary membrane structures and tents** is further amended by adding the following new sub-section:
 - **105.7.18.1 Responsibility.** It shall be the responsibility of the owner of the tent to obtain the permit.
- 108 Board of Appeals is amended by adding the following new sub-section:
 - **108.4** Notice of appeal. Notice of appeal shall be in writing and filed with the Building Official within 15 days of a decision that is rendered by the fire code official.
- **109.3 Violation penalties** is amended to delete the words "guilty of a [SPECIFY OFFENSE] punishable by a fine of not more than [AMOUNT] dollars or by imprisonment not exceeding [NUMBER OF DAYS] or both such fine and imprisonment" and replacing with the words "subject to a citation and or fines as determined by a court of law"

- **111.4 Failure to comply** is amended to delete the words "liable to a fine of not less than [AMOUNT] dollars or more than [AMOUNT] dollars," and replace with the words "Guilty of a civil offense subject to citation and/or fines as determined by a court of law."
- **112.1 Authority to disconnect service utilities** is amended to delete the last sentence "The owner or occupant of the building, structure or service system shall be notified in witting as soon as practical thereafter," without substitution.

CHAPTER 2 Definitions

Section 202 General definition is amended by adding the following definitions in their appropriate alphabetic location

Automated external defibrillator (AED): A medical device heart monitor and defibrillator that:

- (1) Has received approval of its premarket notification, filed pursuant to 21 U.S.C. §360(R), from the United States Food and Drug Administration.
- (2) Is capable of recognizing the presence or absence of ventricular fibrillation or rapid tachycardia, and is capable of determining, without intervention by an operator, whether defibrillation should be performed; and
- (3) Upon determining that defibrillation should be performed, automatically charges and requests delivery of an electrical impulse to an individual's heart.

Fenced compounds: Properties such as but not limited to, car lots, storage lots, warehouses, retail or wholesale businesses, night watchmen staffed facilities, or the facility is open during business hours and uninhabited when closed, etc.

Light wood truss Manufactured from the natural wood fiber in trees, cut and dried to nominal dimensions such as 2x4, 2x6, 2x8, 2x10, 2x12, etc., which is used in floor and ceiling systems. These wooden structures are composed of a combination of members such as chords, diagonals and web members, usually in some triangular arrangements so as to constitute a ridge framework.

Chord: A principal member of a truss which extends from one end to the other, primarily to resist bending; usually one of a pair of such members.

Diagonal: In a framed structure, an inclined member running across a panel as in a truss.

Web: The portion of a truss or girder between the chords or flanges, whose principal function is to resist shear on the span.

Mobile food preparation vehicle: A mobile food preparation vehicle that is any motorized vehicle that includes a self-contained or attached trailer kitchen in which food is prepared, processed or stored and used to sell and dispense food to the ultimate consumer. Mobile units must be mobile at all times during operation. The unit must be on wheels (excluding boats) at all times. Any mobile food unit that removes such wheels or becomes stationary must meet Tennessee Department of Health Regulations Chapter 1200-23-1 et seq. in its entirety. This definition does not include pushcarts as regulated by city codes and prohibited from selling potentially hazardous foods by the state department of health, nor vehicles from which only ice cream and other frozen non-hazardous food products are sold, nor vehicles operating under special event permit.

Residential communities: A community shall be defined as a location at which a group resides and/ or dwells, including but not limited to, apartments, hotels, modular home communities, private subdivision, etc.

Chapter 3 General Requirements

- **308.1.4 Open-flame cooking devices** is amended to delete the second and third exceptions and substitute in lieu thereof the following:
 - 2. Electric grills not employing open flames for the cooking medium are permitted.
- **311.5 Placards** is amended to delete the words "as required by Sections 311.5.1 through 311.5.5" after the word "marked".
- 311.5.1 Placard location is deleted without substitution
- 311.5.2 Placard size and color is deleted without substitution
- 311.5.3 Placard date is deleted without substitution
- 311.5.4 Placard symbols is deleted without substitution
- **311.5.4 Informational use** is deleted without substitution **Chapter 3** shall be amended by adding the following new section:

Section 319 Mobile Food Preparation Vehicles

319.1 Requirements. Mobile Food Preparation Vehicles shall comply with the requirements of the 2017 edition of NFPA 96, *Ventilation Control and Fire Protection of Commercial Cooking Operations*, Annex B, Mobile and Temporary Food Operations.

Chapter 4 Emergency Planning and Preparedness

- **401.1 Scope** is amended to delete the exception without replacement
- **402.1 Definitions** is amended to add the following definition term:

AUTOMATED EXTERNAL DEFIBRILLATOR (AED).

Chapter 4 shall be amended by adding the following new section:

Section 408 Automated External Defibrillators

- **408.1 Where required.** An Automated External Defibrillator shall be installed and maintained in newly constructed or newly classified Group A, B, E, F, H, I, M, R-1, R-2, R-4 and S occupancies with an occupant load of 300 or more.
- **408.2 Location.** Automated External Defibrillators shall be located in conspicuous locations where they will be readily accessible and immediately available for use. AED devices, where required, shall be installed in sufficient numbers and in locations so that an AED device shall be accessible within three (3) minutes in the event of an emergency, in accordance with American Heart Association recommendations.
- **408.2.1** Unobstructed and unobscured. Automated External Defibrillators shall not be obstructed or obscured from view. Means shall be provided within occupancies and at outdoor public assemblages and events to indicate the location of AEDs.
- **408.2.2** Cabinets. Cabinets used to house Automated External Defibrillators shall not be locked.

Exceptions:

- 1. Where Automated External Defibrillators subject to malicious use or damage are provided with a means of ready access.
- 2. In Group I-3 occupancies and in mental health areas in Group I-2 occupancies, access to Automated External Defibrillators shall be permitted to be locked or to be located in staff locations provided the staff has keys.
- **408.3 General requirements.** Automated External Defibrillators and the programs for their use shall comply with the requirements set forth in the Tennessee Code Annotated and the rules adopted by the Tennessee Department of Health.
- **408.3.1 Required Maintenance.** Automated External Defibrillators shall be maintained and tested in accordance to the manufacturer's operational guidelines. Written records of all maintenance and testing performed on AEDs shall be maintained.
- **408.3.2 Registration.** Automated External Defibrillators shall be registered with the primary provider of emergency medical services where the defibrillator is located. A copy of the required AED program and plan for each installation shall be included with the registration.

Chapter 5 Fire Service Features

502.1 Definitions is amended to add the following definitions in their appropriate alphabetic location:

Residential communities A community shall be defined as a location at which a group resides and/or dwells, including but not limited to apartments, hotels, modular home communities, private subdivisions, etc.

Fenced compounds. Properties such as, but not limited to, car lots, storage lots, warehouses, retail or wholesale businesses, night watchman staffed facilities, or the facility is open during business hours and uninhabited when closed, etc.

503.2.5 Dead ends is amended to add the following words after the end of the last sentence following the work "apparatus":

Turnarounds required by this section shall comply with Table D103.4. "Requirements for dead end fire apparatus access road" in Appendix D of this code.

- **503.6 Security gates** is amended to delete the entire section and substituting in lieu thereof the following:
 - **503.6 Security gates**. Any gated and/or fenced community shall have a least on 20 foot opening gate which shall be designated as the Fire Department primary access. This gate shall conform to Sections 503.6.1.1 through 503.6.1.6 and, if automated shall be siren activated and equipped with both primary and secondary overrides.
 - **Exception**: Group R-3 occupancies are exempt from the requirements of this section when the fenced area is for a single occupancy.
 - **503.6.1 Automatic gates**. All automatic gates one required fire department access roadways, as determine by the fire official, shall provide approved override and power-off equipment. This override system shall provide controls to open and override time functions for emergency access and power off equipment for manual operation.
 - **503.6.1.1 Emergency override.** Emergency override of all automated gate systems shall operate with power on or off. The emergency override system shall consist of a fire access housing designated as follows: The access box shall be red in color and display "Fire Dept" or "Fire Access" in white letters on the face plate. The face plate shall be hinged and designate to accept a Medeco padlock keyed to the Shelby County access key. The Fire Access housing shall be equipped with an internal switch so as when the padlock is removed and the face plate is opened, it will signal the automated gate to open. The automated gate shall remain open as long as the face plate remains open .Upon closing of the face plate and reinserting the Medeco padlock the automated gate shall return to normal operation. The Fire Access housing shall be installed in a manner so as to be plainly visible form the cab of the approach emergency vehicle.
 - **503.6.1.2 Manual Disconnects**. All automated entry gates shall be equipped with MEDECO padlocked disconnects for the use in the event that the power supply to the automated gate fails or the Fire Access housing device fails to open the gate.
 - **503.6.1.2.1** For a sliding gate, the rear chain attachment point at which the chain connects to the physical gate shall be padlocked and secured with a Shelby County keyed MEDECO lock. If the disconnect is not accessible from the public side or the secured side of the gate, a walk gate padlocked with a Shelby County keyed MEDECO lock shall be installed to allow access to the disconnect.
 - **503.6.1.2.2** For a swing gate, the attachment point of the swing gate to the gate shall be equipped with a disconnect pin that shall be padlocked. As with the slide style gate, this pin shall be accessible from both the public and secured sided of the gate.
 - **503.6.1.3** Additional gates. If a community design prevents emergency equipment from accessing any area of the property from the primary access gate, it may be deemed necessary by the Fire Official that more than one Fire Department access gate is required. Additional emergency access gates shall conform to the same standards as the primary gate, unless the Fire Marshal declares these gates to be secondary, and allows them to be padlocked secured with a Shelby County keyed Medeco lock, interlocked with the owner's lock.
 - **503.6.1.4** Locking access gates. If locked, gates in fenced compounds shall be padlock secured with a Shelby County keyed Medeco padlock, interlocked with the owner's lock.

503.6.2 Access to hydrants. The Fire Marshal shall require all fences that impeded access to hydrants, whether from the street or to the structure, to have 48" walk gates installed at or near those hydrants. To allow proper access to the hydrant for fire fighting purposes these fences shall not be location within a 10' radius of the centerline of the hydrant. Additionally, long runs of fencing that block access to buildings shall require the installation of walk gates at intervals not exceeding 300 linear feet. Gates installed at hydrants may be included to meet this requirement. If locked, required walk gates shall be equipped with a MEDECO lock properly keyed for Shelby County Fire Department use.

505 Premises identification is amended to add the following new sub-section

505.3 Identifying emblems for structures with light wood truss construction

- **505.3.1** Emblems permanently affixed. An identifying emblem shall be permanently affixed as prescribed by this code at all building having light wood truss construction. This section shall not apply to one and two family dwellings.
- **503.2 Emblems description.** The identifying emblem shall be in the shape of an isosceles triangle with the vertical height of six (6) inches and a horizontal length of twelve (12) inches. The background of the emblem shall be made of a white reflective material and all lettering thereon shall be made of a red reflective material, said lettering having a minimum height of at least four (4) inches with a one-half (1/2) inch stroke.

The emblem shall contain the following designations to identify the presence of wood trusses in the structure

- (1) "F" shall designate a floor with truss construction.
- (2) "R" shall designate a roof with truss construction
- (3)"R/F" shall designate both a floor and roof truss construction.
- 505.3.3 **Location of emblem**. The emblem shall be permanently affixed at one of the following locations:
- (1) Where a building or group of buildings has an approved Fire Department access drive meeting the requirements of Section 503 of the International Fire Code, 2015 edition, emblems shall be placed at each entrance on the left side of the each drive at a height of 3 to 5 feet above ground, no more than 3 feet form the curb line; or,
- (2) Where a building or group of buildings do not have approved Fire Department access drive(s) immediately adjacent to the building, the emblem shall be affixed to each building on the address side of the building visible to approaching fire companies; or,
- (3) At such other locations(s) approved by the Fire Official

If a building exceeds 12 tenant spaces or 12,000 squire feet, additional emblems shall be provided on the building at locations designated by the Fire Official. These emblems shall be installed and maintained by the owner of the structure(s).

507.3 Fire flow is amended to add the following words after the end of the last sentence following the word "method"

Fire flows required by this section shall comply with Appendix B Fire-Flow Requirements for Buildings as amended in this code.

507.3 is further amended by adding the following new sub-section:

507.3.1 Hydrant systems. All hydrant systems shall be designed such that each individual hydrant on the system shall be capable of flowing a minimum of 1,500 gallons per minute (gpm) at 20 pounds per square inch (PSI)(138kPa) residual pressure.

507.5.2 Inspection, testing and maintenance is amended to add the following new sections:

507.5.2.1 Private hydrants periodic inspection, testing and maintenance. Hydrants shall be inspection monthly to make sure they are not obstructed by storage, weeds, etc, conveniently accessible, visible and with outlet caps in place. At least once a year they shall be opened and closed to ensure proper operation and drainage in compliance with this Fire Prevention Code as amended and shall be properly lubricated. All such inspection, testing and maintenance shall be performed by fire protection company licensed by the State of Tennessee. Records of all such inspections, tests and maintenance activities shall be submitted to the County Fire Official who shall maintain a current inventory of such information. Such records shall also be kept on the premises and shall be available for the fire official.

507.5.2.2 Notice to inspect private fire hydrants. Upon failure of any private fire hydrant owner within the unincorporated area of Shelby County to properly inspect, test and maintain such private fire hydrants in accordance with the law, it shall be the duty of the county fire department to serve a notice on such owner to inspect their fire hydrant within twenty (20) days of the service of such notice. Such notice may be served personally on the owner by mailing same by registered or certified mail to the owner's last know address or may be posted on the property on which such fire hydrant is located. Service of notice by any of the above methods shall be due notice to such owner. Should the owner or its responsible agent fail to inspect all private fire hydrants on said property following notice as set out above, then the County Fire Department may enter such property or premises directly or though their designated contractor for the purpose of inspection, testing and maintenance of such fire hydrants.

Chapter 5 shall be amended by adding the following new section

Section 511 Electric security fence installation

- **511.1 Electric security fence installations.** All new and existing electric security fence installations shall be equipped with following features:
- (1) An approved manual disconnect shall be provided that will interrupt the power supply to the fence. The manual disconnect means shall be located at an approved and accessible location. It shall be secured with an approved locking device that is keyed to the Shelby County Fire Department's specifications
- (2) The manual disconnect means shall clearly indicate the fence's power status
- (3) Signage shall be provided at the manual disconnect that indicates "Fence Power Emergency Bypass" in red letters at least 1" high on a white background. Based on the

installation additional signs may be require at additional points to clearly indicate the location of the manual disconnect means.

Chapter 6 Building Services and Systems No Amendments

Chapter 7 Fire Resistance-Rated Construction No Amendments

Solution Chapter 8 **Interior Finish, Decorative Materials and Furnishings**

806.1.1 Restricted occupancies is amended to add the letter "B" following the letter "A"." This section is further amended to delete the first exception without replacement and substitute to word "Reserved" in that location to prevent the need for re-numbering.

Section 806 Decorative vegetation in new and existing buildings is amended to add the following new sub-section:

806.6 Restricted occupancies. Combustible decorative materials such as, but not limited to , cotton batting, vegetation, moss, straw, hay, vines, split bamboo leaves and similar material shall not be used in Group A, B,.E, I-1, I-2, I-3, I-4, M, R-1, R-2, or R-4 occupancies.

Chapter 9 Fire Protection Systems

- **901.2 Construction document** is amended to add the following new sub-sections:
 - **901.2.2** Fire sprinkler plans submittals. Plans for the installation of sprinkler system shall be submitted to the fire department and approved prior to installation of any new system and on all existing systems where 10 or more sprinkler heads are added or when calculation for the system must be revised.
 - **901.2.3** Fire alarm plans submittal. Plans for the installation of fire alarm systems shall be submitted to the fire department and approved prior to installation of any new system and for any alterations to exiting systems where devises are added or removed.
 - **901.2.5 All other fire protection system plans**. Any plans for the installation of fire protection systems shall be submitted to the fire department and approved prior to installation.
- **903.2 Where required** is amended to add the following words at the end of the last sentence following the number "903.2.12":

Approved automatic sprinkler systems shall be provide in all new or altered Group A,B,E,F,M, R1,2,3,4,S and U Occupancies that exceed 5,000 square feet (464 m²) of gross floor space and/or have floor surfaces used for human occupation located more that 20 feet

- (9.2m) above the lowest level of Fire Department vehicle access. "Altered" for the purpose of this shall mean:
 - 1. The addition to any existing commercial building by twenty (20%) percent
 - 2. Any change in occupancy to a retirement or board and care residency.
- 903.2.1.1 Group A-1 is amended to delete the first condition and substitute in lieu thereof the following
 - 1. The Building exceeds 5,000 square feet (464 m²)
- 903.2.1.3 Group A-3 is amended to delete the first condition and substitute in lieu thereof the following
 - 1. The Building exceeds 5,000 square feet (464 m²)
- 903.2.1.4 Group A-4 is amended to delete the first condition and substitute in lieu thereof the following
 - 1. The Building exceeds 5,000 square feet (464 m²)
- **903.2.2** Group B ambulatory heath care facilities is amended to delete the word "either" in the first sentence and replace it with the word "any "and add "or". This section is further amended to add the following third condition:
 - 1. The Building exceeds 5,000 square feet (464 m²)
- 903.2.3 Group E is amended to delete the first condition and substitute in lieu thereof the following
 - 1. Throughout all Group E occupancies greater than 5,000 square feet (464 m²) in area.
- 903.2.4 Group F-1 is amended to delete the first condition and substitute in lieu thereof the following
 - 1. The Building exceeds 5,000 square feet (464 m²)
- Section 903.2.4 is further amended to delete the first condition and substitute in lieu thereof the following
 - 1. The combined area of all Group F-1 Square Footage exceeds 5,000 square feet (464 m²)
- 903.2.7 Group M is amended to delete the first condition and substitute in lieu thereof the following
 - 1. A Group M occupancy exceeds 5,000 square feet (464 m²)
- Section 903.2.7 is further amended to delete the third condition and substitute in lieu thereof the following
 - 3. The combined area of all Group M fire areas on all floors, including any mezzanines, exceeds 12,000 square feet (1,115 m²)
- 903.2.9 Group S-1 is amended to delete the first condition and substitute in lieu thereof the following:
 - 1. A Group S occupancy exceeds 5,000 square feet (464 m²)
- Section 203.2.9 is further amended to delete the third condition and substitute in lieu thereof the following

- 3. The combined area of all Group S-1 square footage on all floors, including any mezzanines, exceeds 5,000 square feet (1,115 m²)
- **903.2.9.1 Repair Garages** is amended to delete the first condition and substitute in lieu thereof the following:

Buildings have two or more stories above grant plane, including basements, with a square footage containing a repair garage exceeding 5,000 square feet (464 m²)

- 903.2.9.1 is further amended to delete the second condition and substitute in lieu thereof the following:
 - 2. Buildings no more than one story above grade plane, with a square footage containing a repair garage exceeding 5,000 square feet (464 m²)
- **903.2.10 Group S-2 enclosed parking garages** is amended to delete the first condition and substitute in lieu thereof the following:
 - 1. Where the square footage of the enclosed parking garage exceeds 5,000 square feet (464 m²)
- **903.3.5 Water supplies** is amended to add the following words at the end of the last sentence following the work "Code":

and Memphis Light Gas and Water requirements

903.4 Sprinkler system supervision and alarm is amended to add the following sentence at the end of the section following the "unit.":

The valves shall also be locked in the normal position.

Section 903.4 is further amended to add exception 8 and 9 at the end of the section:

- 8. Existing systems that have not been extended, modified or previously electrically supervised may be locked in the normal position.
- 9. In private fire service mains, underground control or section valves with roadway boxes accessible with a special wrench shall not be required to be electrically supervised or locked in the normal position.
- **903.4.1 Monitoring** is amended to add the following new sub-section:
 - **903.4.1.1** Where monitoring of a sprinkler system is required in this jurisdiction, it shall be by an approved central station and shall be in accordance with the requirements of Fire Alarm Systems for Central Station Service as described in NFPA 72. The method of retransmission of signals shall be approved by the Fire Marshal.
- 903.4.3 is amended to delete the words "high rise buildings" at the end of the section and replace it with the following words: "all buildings two (2) or more stories in height". This section is further amended to add the following exceptions at the end of the section:

Exceptions:

- 1. Buildings equipped with an approved 13 R sprinkler system that are not equipped with a standpipe system.
- **904.12 Commercial cooking systems** is amended to insert the following sentences before the first sentence of this section following the word "systems":
- "Commercial cooking systems shall include all cooking operations except those conducted in one and two family dwellings being used as group homes shall be required to install a suppression system unless otherwise approved by the fire official. Domestic cooking equipment and related exhaust systems/hoods regulated by this section may be protected by an automatic fire extinguishing system of a type recognized for their protection."
- **905.3 Required installations** is amended to delete the numbers "905.3.8" in the first sentence and substitute in lieu thereof the number "905.3.9"
- 905.3.2 Group A is amended to delete the second exception in its entirety without substitution.

Section 905.3 is further amended to add the following new sub-section:

- 905.3.9 Other buildings. Buildings 50 feet or more in height, except those with a roof slope greater than 4:12 that do not require a wet standpipe shall be provided with a dry standpipe. The standpipe shall provide coverage of all areas of the building including the roof. The standpipe need not have an automatic water supply and shall be located so that hose lays do not exceed 250 feet. Access to the roof and the standpipe shall be provided. Each standpipe shall be capable of providing 500 gallons per minute at the top most outlet when supplied by fire department equipment. Signage shall be provided on each standpipe indicating that it is a dry standpipe with no automatic water supply.
- **907.2.5 Group H** is amended to delete the letter and number "H-5" in the first sentence and replace it with the letter "H".
- 907.5.2.3 Visible alarms is amended to delete the first exception in its entirety without substitution.
- **907.6.6 Monitoring** is amended to add the following new sub-sections:
 - **907.6.6.3 Monitoring requirements.** Where monitoring of a fire alarm system is required in this jurisdiction, it shall be by an approved central station and shall be in accordance with the requirements of Fire Alarm Systems for Central Station Service as described in NFPA 72. The method of retransmission of signals shall be approved by the Fire Marshal.
 - **907.6.6.4 Runner service.** A runner or technician, as defined by NFPA 72, must be dispatched to the protected premises to arrive within 1 hour after receipt of a signal when required to respond.
- **910.4 Mechanical smoke exhaust** is amended to add the following new sub-section:
 - **910.4.8 Mechanical smoke exhaust system plans submittal.** Plans for the installation of all mechanical smoke exhaust systems shall be submitted to the Fire Marshal and approved prior to installation of any new system and for any alterations to existing system where components are added or removed.

- **910.4.3 System design criteria** is amended to add the following sentence at the end of the section following the word, "minute"
 - "The exhaust fans shall be uniformly spaces within the building and the maximum distance between the fans shall be no greater than 100 feet, unless approved by the fire official."
 - 4. Controls shall be designed for selective control of no more than three (3) smoke removal units. Fans grouped on a single switch shall be in the same fire area and powered according to item #3.
 - 5. Electrical service to the smoke removal systems shall be connected on the line side of the main electrical disconnect.
 - 6. The smoke removal fire department system control panel shall be in an approved location and shall be clearly identified. The control panel shall be location in a room protected by not less than a 1-hour fire resistance rated occupancy separated as identified in the building code or an exterior location approved by the fire official. The room shall be directly accessible from the exterior of the building. Automatic sprinkler protection shall be provided in the control panel room.
- **910.4.3.1 Makeup air** is amended to add the following sentence at the end of the section following the word, "exhaust"

"Overhead doors shall not be used as required makeup air inlets."

910.4.5 Manual control location is amended to add the following sentences at the end of the section following the word, "both":

"The mechanical smoke removal system fire department control panel shall be in an approved location. The control panel may be located at an exterior location approved by the Fire Official. The location and the control panel shall be clearly identified. Automatic sprinkler protection shall be provided in the control panel room."

910.4.4 Controls is amended to add the following sentence at the end of the section following the word, "system."

"Controls shall be designed for selective control of no more than 3 smoke removal units. Fans grouped on a single switch shall be in the same fire area."

Section 912 Fire Department connection is amended to add the following new sub-section:

- **912.2.3 Proximity to fire hydrants.** Fire department connections shall be located not more than 100 feet from an approved fire hydrant.
- **913.4 Valve supervision** is amended to delete the entire section and substitute in lieu thereof the following:
 - **913.4 Valve supervision**. All valves which effect the proper operation of the fire pump shall be supervised electrically by an approved central station and be locked in the normal position.

Exception: In private fire service mains, underground control and section valves with roadway boxes assessable with a special wrench shall not be required to be electrically supervised or locked in the normal position.

914.3.2 Secondary water supplies is amended to add the following words to the end of the last sentence following "NFPA 13":

"; however, this supply need not exceed 10,000 gallons in capacity unless required by the fire code official."

Chapter 10 Means of Egress

1001.1 General is amended to add the following new sub-section:

1001.3 Other standard. When this code does not contain requirements on a particular aspect of a means of egress system, NFPA 101 may be used as an accepted engineering practice standard.

1008.1 Illumination required is amended to add the flowing at the end of Exception # 2 following the letter "A":

And Group S (Sprinklered)

1031 Maintenance of the means of egress is amended to add the following new subsections:

1031.10 Overcrowding The number of occupants of any building or portion thereof shall not be permitted to exceed the allowed or posted capacity determined in accordance with the building code.

Chapter 11 Construction Requirements for Existing Buildings No Amendments

Chapter 12-19
Reserved
No Amendments

Chapter 20 Aviation Facilities

Section 2004 Aircraft Maintenance is amended to add the following new sub-section

2004.8 Drip pans. Every aircraft hanger shall be equipped and maintained with metal drip pans under the engines of all aircraft stored or parked therein.

Chapter 21

Dry Cleaning No Amendments

Chapter 22 Combustible Dust- Producing Operations No Amendments

Chapter 23 Motor Fuel-Dispensing Facilities and Repair Garages No Amendments

Chapter 24
Flammable Finishes
No Amendments

Chapter 25
Fruit and Crop Ripening
No Amendments

Chapter 26 Fumigation and Thermal Insecticidal Fogging No Amendments

Chapter 27 Semiconductor Fabrication Facilities No Amendments

Chapter 28
Lumber Yard and Woodworking Facilities
No Amendments

Chapter 29 Manufacture of Organic Coatings

2909.4.2 Spills is amended by deleting the words "or by burning in the open at an approved detached location" without substitute.

Chapter 30 Industrial Ovens No Amendments

Solution Chapter 31 **Tents and Other Membrane Structures**

3103.2 Approval required is amended to delete the entire section and substitute in lieu thereof the following:

Exception

2. Funeral Tents and curtains or extensions attached thereto when used for funeral services.

3104.15.5 Cooking tents is amended to add the words "unless approved by the fire official" at the end of the section following the numbers and letters "20 feet (6096mm)"

3104.15.6 Outdoor cooking is amended to add the words "unless approved by the fire official" at the end of the section following the word "structure."

Chapter 32 High-Piled Combustible Storage

3206.1.2 Door size and type is amended to add the following exception:

Exception: Roll up doors shall be allowed to be considered for use as fire fighter access doors provided provisions are made for the doors to unlock upon activation of the water flow alarm.

Solution Chapter 33 Fire Safety During Construction and Demolition

3313.3 Detailed requirements is amended to add the flowing sentence at the end of the exception following the word "materials";

The type of standpipe permitted shall be approved by the fire official.

Chapter 34
Tire Rebuilding and Tire Storage
No Amendments

Chapter 35 Welding and Other Hot Work No Amendments

> Chapter 36 Marinas No Amendments

Chapter 37 Combustible Fibers No Amendments

Chapters 38 through 49
Reserved
No Amendments
Chapter 50
Hazardous Materials – General Requirements
No Amendments

Chapter 51
Aerosols
No Amendments

Chapter 52 Reserved No Amendments

Chapter 53 Compressed Gas No Amendments

Chapter 54 Corrosive Materials No Amendments

Chapter 55 Cryogenic Fluids No Amendments

Chapter 56
Explosives and Fireworks
No Amendments

Chapter 57 Flammable and Combustible Liquids

5703 General Requirements is amended to add the following new sub-section:

5703.1.4 Unauthorized storage. It shall be illegal to store or keep gasoline powered equipment such as motorcycles, lawn equipment etc. in any building unless the room or space is approved for such use.

5703.5. Labeling and signage is amended to add the word "or combustible" following the word "flammable" in the first sentence:

5704.2.9.6.1 Locations where above-ground tanks are prohibited is amended to delete the words "limits established by law as the limits of districts in which such storage is prohibited (see Section 3 of the Sample Legislation for Adoption of the *International Fire Code* on page xxi)" in the first sentence and substitute in lieu thereof the words "fire district".

5706.2.4.4 Locations where above-ground tanks are prohibited is amended to delete the words "limits established by law as the limits of districts in which such storage is prohibited (see Section 3 of the Sample Legislation for Adoption of the *International Fire Code* on page xxi)" in the first sentence and substitute in lieu thereof the words "fire district".

5704.3.3 Indoor storage is amended to add the following Exertion # 3:

3. The storage of flammable and combustible liquids in plastic containers shall comply with this chapter as well as applicable sections of NFPA 30. Compliance with Factory Mutual 7-29 shall be considered an acceptable alternative to NFPA 30 or may be used when storage arrangements are outside of the scope of NFPA 30.

Chapter 58 Flammable Gases and Flammable Cryogenic Fluids No Amendments

Chapter 59 Flammable Solids No Amendments

Chapter 60
Highly Toxic and Toxic Materials
No Amendments

Chapter 61 Liquefied Petroleum Gases

6103.2.1 Portable containers is amended by adding the following new sub-section:

6103.2.1.8 Flame effects before a proximate audience. The use of LP gas as part of a flame effect before a proximate audience shall comply with this chapter and NFPA 160 and shall be approved by the fire official.

6107 Safety Precautions and Devices is amended to add the following new sub-section:

6107.5 Storage and Transport. Portable LP-gas containers shall be maintained in the upright position relative to the relief valve during storage or transport.

Chapter 62 Organic Peroxides No Amendments

Chapter 63
Oxidizers, Oxidizing Gases and Oxidizing Cryogenic Fluids
No Amendments

Chapter 64
Pyrophoric Materials
No Amendments

Chapter 65
Proxylin (Cellulose Nitrate) Plastics
No Amendments

Chapter 66 Unstable (Reactive) Materials No Amendments

Chapter 67 Water-Reactive Solids and Liquids No Amendments

Chapters 68 through 79 Reserved No Amendments

Chapter 80 Referenced Standards

Chapter 80 Referenced Standards is amended by deleting and adding the following standards and publications:

NFPA Standards

02—16 Hydrogen Technologies Code
5801.1 10—18 Portable Fire Extinguishers
906.3(1), Table 906.3(2), 906.3.2, 906.3.4, 3006.3, I101.1
11—16 Low-, Medium- and High-expansion Foam
5704.2.9.2.2
12—18 Carbon Dioxide Extinguishing Systems
904.12
12A—18 Halon 1301 Fire Extinguishing Systems
901.6.1, 904.9
13—16 Installation of Sprinkler Systems
903.3.8.2, 903.3.8.5, 904.12, 905.3.4, 907.6.4, 914.3.2, 1019.3, 1103.4.8, 3201.1, 3204.2, Table
3206.2, 3206.4.1, 3206.9, 3207.2, 3207.2.1, 3208.2.2, 3208.2.2.1, 3208.4, 3210.1, 3401.1, 5104.1,
5104.1.1, 5106.5.7, 5704.3.3.9, Table 5704.3.6.3(7), 5704.3.7.5.1, 5704.3.8.4.
13D—16 Installation of Sprinkler Systems in One- and Two-family Dwellings and
Manufactured Homes
903.3.1.3
13R—16 Installation of Sprinkler Systems in Residential Occupancies up to and Including
Four Stories in Height
903.3.5.2, 903.4
14—16 Installation of Standpipe and Hose Systems 905.2, 905.3.4, 905.4.2,
905.6.2, 905.8
15—17 Water Spray Fixed Systems for Fire
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17—17 Dry Chemical Extinguishing Systems
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904.12
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904.12 17A—17 Wet Chemical Extinguishing Systems
904.12 17A—17 Wet Chemical Extinguishing Systems

22—18 Water Tanks for Private Fire Protection
507.2.2
24—16 Installation of Private Fire Service Mains and their
Appurtenances 507.2.1, 2809.5
25—17 Inspection, Testing and Maintenance of Water-based Fire Protection
Systems 507.5.3, Table 901.6.1, 904.7.1, 912.7, 913.5
30—18 Flammable and Combustible Liquids Code 610.1, 5701.2, 5703.6.2, 5703.6.2.1,
5704.2.7, 5704.2.7.1, 5704.2.7.2, 5704.2.7.3.2, 5704.2.7.4, 5704.2.7.6, 5704.2.7.7, 5704.2.7.8,
5704.2.7.9, 5704.2.9.3, 5704.2.9.4, 5704.2.9.6.1.1, 5704.2.9.6.1.2, 5704.2.9.6.1.3, 5704.2.9.6.1.4,
5704.2.9.6.1.5, 5704.2.9.6.2, 5704.2.9.7.3, 5704.2.10.2, 5704.2.11.3, 5704.2.11.4.2, 5704.2.12.1,
5704.3.1, 5704.3.6,
Table 5704.3.6.3(1), Table 5704.3.6.3(2), Table 5704.3.6.3(3), 5704.3.7.2.3, 5704.3.8.4, 5706.8.3
30A—18 Motor Fuel-dispensing Facilities and Repair Garages2301.4, 2301.5, 2301.6,
2306.6.3, 2310.1
31—16 Installation of Oil-burning Equipment
603.3.3
32—16 Dry Cleaning
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33—18 Spray Application Using Flammable or Combustible
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34—18 Dipping, Coating and Printing Processes Using Flammable or Combustible
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2405.4.1.1
35—16 Manufacture of Organic Coatings2901.3,
2905.4
40—16 Storage and handling of Cellulose Nitrate
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51—18 Design and Installation of Oxygen-fuel Gas Systems for Welding, Cutting and Allied
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3509.1
52—16 Vehicular Gaseous Fuel System Code
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55—16 Compressed Gases and Cryogenic Fluids Code2309.2.1, 5301.1, 5307.3, 5501.1,
5801.1, 6301.1
56—17 Fire and Explosion Prevention during Cleaning and Purging of Flammable Gas
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58—17 Liquefied Petroleum Gas Code603.4.2.1.1, 6101.1, 6103.1, 6103.2.1,
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6107.4, 6108.1, 6108.2, 6109.11.2, 6111.3
59A—16 Production, Storage and Handling of Liquefied Natural Gas (LNG)5301.1,
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61—17 Prevention of Fires and Dust Explosions in Agricultural and Food Processing
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170—18 Standard for Fire Safety and Emergency Symbols		
204—18 Smoke and Heat Venting		
910.5.1		
211—16 Chimneys, Fireplaces, Vents and Solid Fuel-burning		
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261—18 Method of Test for Determining Resistance of Mock-Up Upholstered Furniture		
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265—15 Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile		
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803.5.2, 803.6		
303—16 Fire Protection Standard for Marinas and Boatyards905.3.7, 3603.5, 3603.6,		
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318—18 Protection of Semiconductor Fabrication		
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326—15 Safeguarding of Tanks and Containers for Entry, Cleaning, or		
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385—17 Tank Vehicles for Flammable and Combustible Liquids 5706.5.4.5, 5706.6, 5706.6.1		
400—16 Hazardous Materials Code 5601.1.5, 6304.1.2, Table 6304.1.5 (1), Table		
6304.1.5(2)		
407—17 Aircraft Fuel Servicing		
2006.3		
409—16 Aircraft Hangars		
914.8.6		
410—15 Aircraft		
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495—18 Explosive Materials Code		
5604.2, 5604.6.2, 5604.6.3, 5604.7.1, 5605.1, 5606.1, 5606.5.2.1, 5606.5.2.3, 5607.1, 5607.9,		
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498—18 Safe Havens and Interchange Lots for Vehicles Transporting		
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505—18 Fire Safety Standard for Powered Industrial Trucks, Including Type Designations,		
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654—17 Prevention of Fire and Dust Explosion from the Manufacturing, Processing and			
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655—17 Prevention of Sulfur Fires and Explosions			
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664—17 Standard for the Prevention of Fires and Explosions in Wood Processing and			
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701—15 Methods of Fire Tests for Flame-propagation of Textiles and Films806.2,			
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703—18 Fire Retardant-Wood and Fire Retardant Coatings for Building			
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704—17 Standard System for Identification of the Hazards of Materials for Emergency			
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5005.2.11, 5005.4.4, 5503.4.1, 5704.2.3.2			
750—15 Water Mist Fire Protection Systems			
904.11.1.1			
914—15 Code for Protection of Historic			
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1122—18 Code for Model			
Rocketry 5601.1.4			
1123—18 Fireworks Display			
5608.6			
1124—17 Code for the Manufacture, Transportation, Storage and Retail Sales of Fireworks			
and Pyrotechnic Articles			
5605.5, 5609.1			
1125—17 Code for the Manufacture of Model Rocket and High Power Rocket			
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1127—18 Code for High Power			
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2001—18 Clean Agent Fire Extinguishing SystemsTable			
901.6.1, 904.10			

FM Global Data Sheets

7-29 Ignitable Liquid Storage in Portable Containers, (current edition) – Sections that relate to requirements for flammable and combustible liquids in plastic containers only.

American Petroleum Institute

API Recommended Practice 2201, Safe Hot Tapping Practices in the Petroleum and Petrochemical Industries (current edition)

EXHIBIT B

AMENDMENTS TO SHELBY COUNTY CODE OF ORDINANCES CHAPTER 22, ARTICLE II

ARTICLE II. - SHELBY COUNTY FIRE PREVENTION CODE

Section 22-19 – Adopted

The Shelby County Fire Prevention Code is hereby amended by adopting the 2015edition of the International Code Council (ICC) Fire Code including:

Appendix A - Permit, Plans and Inspection Fees

Appendix B – Fire Flow Requirements for Buildings

Appendix C - Fire Hydrant Location and Distribution

Appendix D – Fire Apparatus Access Roads

Appendix E – Hazardous Categories

Appendix F – Hazard Rankings

Appendix G – Cryogenic Fluids –Weight and Volume Equivalents

(Code 1992, § 22-26, Ord. No. 70, § 2, 4-30-1990; Ord. No. 193 § 1, 1-20-1997; Ord. 251, § 1, 9-10-2001; Ord. No. 372, § 1, 6-1-2009)

Note – A copy of the 2015 edition of the International Code Council fire Code and all local amendments are available for inspection at the County Fire Department located at 1075 Mullins Station, Building C, Second Floor in Memphis, Tennessee and at the main office of the Shelby County Clerk at 150 Washington Ave., Memphis, TN.

Section 22-20. – Local amendments.

The 2015 edition of the International Code Council (ICC) Fire Code as adopted in this article is hereby amended by the adoption of the local amendments, attached to Ordinance No. -____ and incorporated herein by reference. (Code 1992, § 22-27, Ord. No. 70, § 3, 4-30-1990; Ord. No. 110 § 1, 8-24-1992, Ord. No. 193 § 2, 1-20-1997; Ord. 229 § 1, 10-9-2000; Ord. 251, § 2, 9-10-2001; Ord. No. 372, § 2, 6-1-2009)